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KOREAN PATENT ABSTRACTS

(11)Publication number: 1020010028291 A
 (43)Date of publication of application: 06.04.2001

(21)Application number: 1019990040468

(22)Date of filing: 20.09.1999

(71)Applicant: LG INFORMATION & COMMUNICATIONS LTD.

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(51)Int. Cl. H04B 7/005

(54) DIGITAL AUTOMATIC GAIN CONTROL DEVICE OF COMMUNICATION SYSTEM

(57) Abstract:

PURPOSE: The digital AGC(Automatic Gain Control) device of a communication system is provided to use a digital AGC algorithm, so as to resolve a signal distortion, and to improve a reliability of a system. CONSTITUTION: An RF(Radio Frequency) AGC(Automatic Gain Control)(11) controls a signal level as much as a determined reference value, and outputs controlled I and Q signals. The first and the second A/DC(Analog to Digital Converters)(12,13) respectively perform an A/D conversion for the I and the Q signal. The first and the second filter(14,15) respectively filter outputs of the first and the second A/DC(12,13). A multiplier(16) multiplies signals filtered from the first and the second filter(14,15). An adder

(17) adds the I signal to the Q signal. A comparator(18) compares an output of the adder(17) with a reference signal. An accumulator(19) accumulates an output of the comparator(18), and outputs the accumulated output to the multiplier(16).



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Legal Status

Date of request for an examination (19990920)

Notification date of refusal decision ()

Final disposal of an application (registration)

Date of final disposal of an application (20020130)

Patent registration number (1003251370000)

Date of registration (20020206)

Number of opposition against the grant of a patent ()

Date of opposition against the grant of a patent ()